INDEX

Activity, of two lizards, 89-91 Aikman, John M., article, 113-130 Ameiva quadrilineata, 161-185 Armadillidium vulgare, 1-22 Assimilation, genetic, 321 Atoll ecology, 131-160

Basiliscus vittatus, 161-185 Beyers, Robert J., article, 281-306 Birds, effects on vegetation, 151-153 Birkenholz, Dale E., article, 255-280 Bogs, Minnesota, freezing and duration, 339-340

freezing and duration, 339-hydrology, 335-338 patterned, 354-360 processes, 327-374 stratigraphy, 342-344 succession, 367-370 temperatures, 338

Brachiopod, 187-213

Cannibalism, in isopods, 6 in Zapus hudsonius, 242 Carbon dioxide metabolism, 285-291 Caroline Islands, Kapingamarangi atoll ecology, 131-160

Climate, Caroline Islands, 135
Madison Range, Mont., 376
Colonization, of isolated bodies of
water, 161-185

Costa Rica, climate of a beach in, 86-87

Deer Mouse, Prairie, habitat selection by, 307-325

Dispersal, passive, of small aquatic organisms, 161-185

Ecosystems, metabolism of aquatic laboratory micro-, 281-306

Ehrenreich, John H., article, 113-130 Environment, and vegetational pattern, 375-406

Evolution, and habitat selection, 323 Experience, influence on habitat selection of early, 307-325

Fire, prairie, 114, 125-127 effects on microclimate and soil, 126

Fish, percoid, 23-62 Floristics, Caroline Islands, 135-138 Food, of Armadillidium vulgare, 3-5

of two lizards, 94-98 of Zapus hudsonius, 237-241

Girella nigricans, 23-62 Glottidia pyramidata, 187-213 Growth, of Glottidia pyramidata, 207-210 and longevity of two lizards, 99-100

of Neofiber alleni, 269-274

Habitat selection, by Prairie Deer

Mouse, 307-325

Heinselman, Miron L., article, 327-374

Hibernation, of Zapus hudsonius, 232-235

Hirth, Harold F., article, 83-112 Homesites of *Neofiber alleni*, 259-263

Hydrology, Caroline Islands, 134 of bogs, 335-338

Imprinting, 321 Index, vagility, 175-177 Isopoda, 1-22

Kapingamarangi Atoll, terrestrial ecology of, 131-160

Life history of Glottidia pyramidata, 190-193

Lizards, ecology of tropical beach, 83-112

Locomotion of two lizards, 104-105

McNab, Brian K., article, 63-82 Madison Range, Mont. climate, 376

geology, 377 microclimate, 387-390

vegetation, 375, 377-380 Maguire, Bassett, Jr., article, 161-185

Management practices and native prairie, 113-130

burning, 114 grazing, 114

mowing, 114
Metabolism, of aquatic laboratory
microecosystems, 281-306
of Peromyscus, 63-82

Microelimate, Madison Range, Mont., 387-390

Morrison, Peter, article, 63-82 Mortality of Neofiber alleni, 255-280 Mouse, Meadow Jumping, 215-254 Muskrat, Round-Tailed, 255-280

Neofiber alleni, 255-280 Niering, William A., article, 131-160 Norris, Kenneth Stafford, article, 23-62

Oniscoidea, 1-22 Opaleye, 23-62 Oxygen metabolism, 291

Paine, Robert T., article, 187-213 Parasites, of isopods, 5 of Glottidia pyramidata, 192-193 of two lizards, 102 of Zapus hudsonius, 228-231

Paris, Oscar H., article, 1-22 Patten, D. T., article, 375-406

Pattern, Madison Range vegetation future, 401-402 maintenance, 400-401 origin, 398-400

Patterned bogs, string and island, 354-360

Peat, depth, 335

rate of accumulation, 353-354 Peatland, classification, 365-367 terminology, 373-374

Peatlands, Minnesota as forest sites, 327-374

types, 327-374 Peromyscus, 63-82

Peromyscus maniculatus bairdi, 307-325

pH, used to measure ${\rm CO_2}$ metabolism of microecosystems, 285-290

Photoperiod, effect on metabolism of microecosystems, 285, 301

Population, dynamics of Glottidia pyramidata, 207-210 structure of the lizards, 102-104

Prairie, native in Iowa, 113-130 climatology, 117-118 effect of management practices, 113-130 soils, 118, 120

Predators of isopods, 5

Range, home, of Zapus hudsonius, 249-250 geographic, of Girella nigricans,

Reproduction of Glottidia pyramidata, 193-200 of Neofiber alleni, 266-269 of two lizards, 100-102 of Zapus hudsonius, 243-244

Salinity and vegetation, Carolines aerial, 145 ground water, 146 storms, 147

Site and bog flora, 344-348
Soils, Caroline Islands, 134
Madison Range, Mont., 367-377,
391-395
nutrients, prairie, 120
prairie, 120
structure, prairie, 120

temperature, prairie, 119
Storms and vegetation, Carolines,

Succession, in bogs, 367-370 in lizard populations, 106

Temperature, body, of Peromysous, 63-82
bogs, 338
functions, in ecology of Girella
nigricans, 23-62
Thermoregulation, of two lizards,

91-94 of Peromyscus, 67, 74-75 Topography, as a factor, 397-398 Transport, of small organisms, by birds, 180 by insects, 180 in rain, 181

Vagility index, 175-177
Vegetation, Caroline Islands, 139144
Madison Range, Montana, 377387

Vegetational pattern and environment, 375-406

Weather, effects of on isopods, 6-16 Wecker, Stanley C., article, 307-325 Whitaker, John O., Jr., article, 215-254

Zapus hudsonius, 215-254

